

Fig. 1A

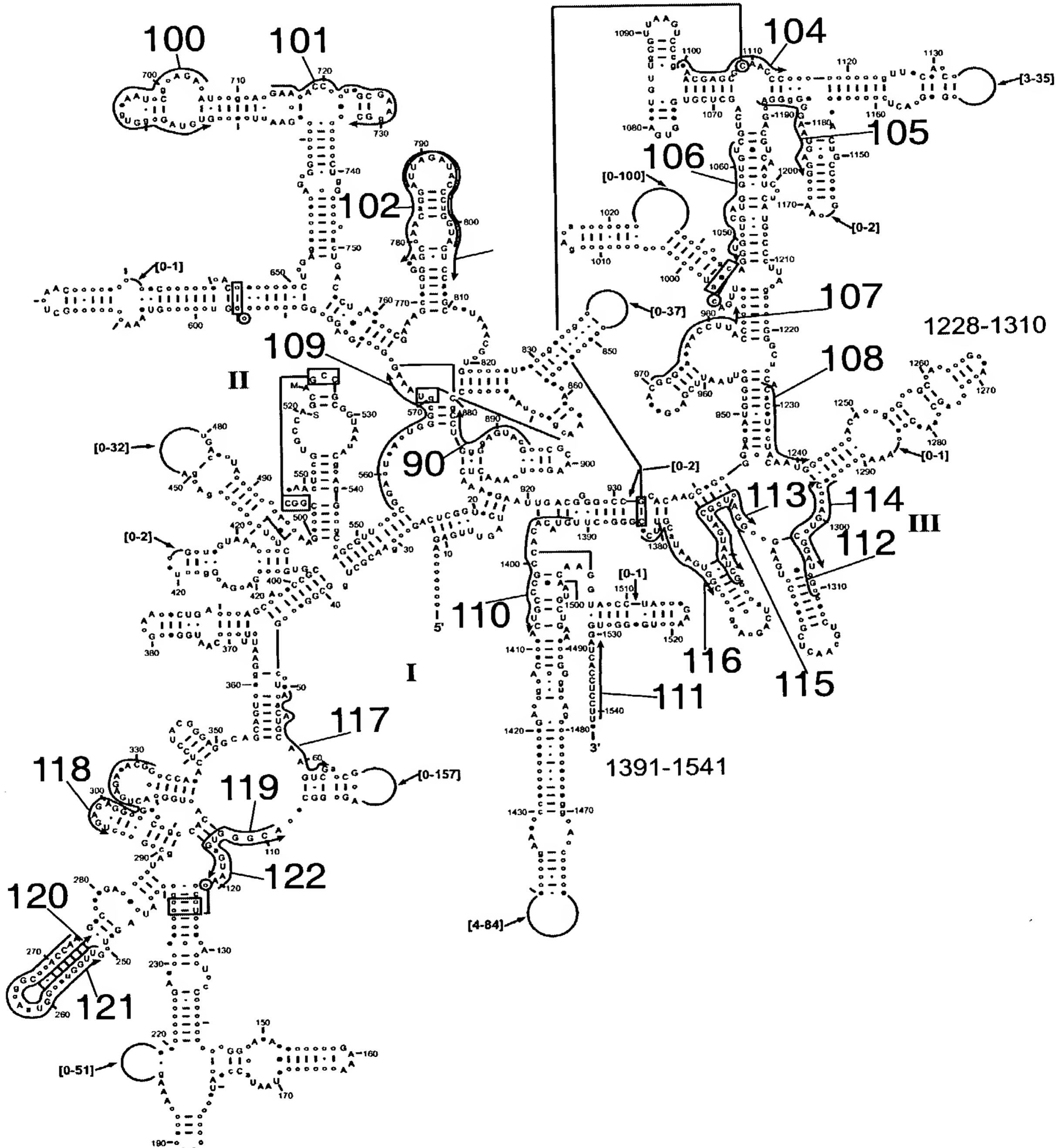


Fig. 1A-2

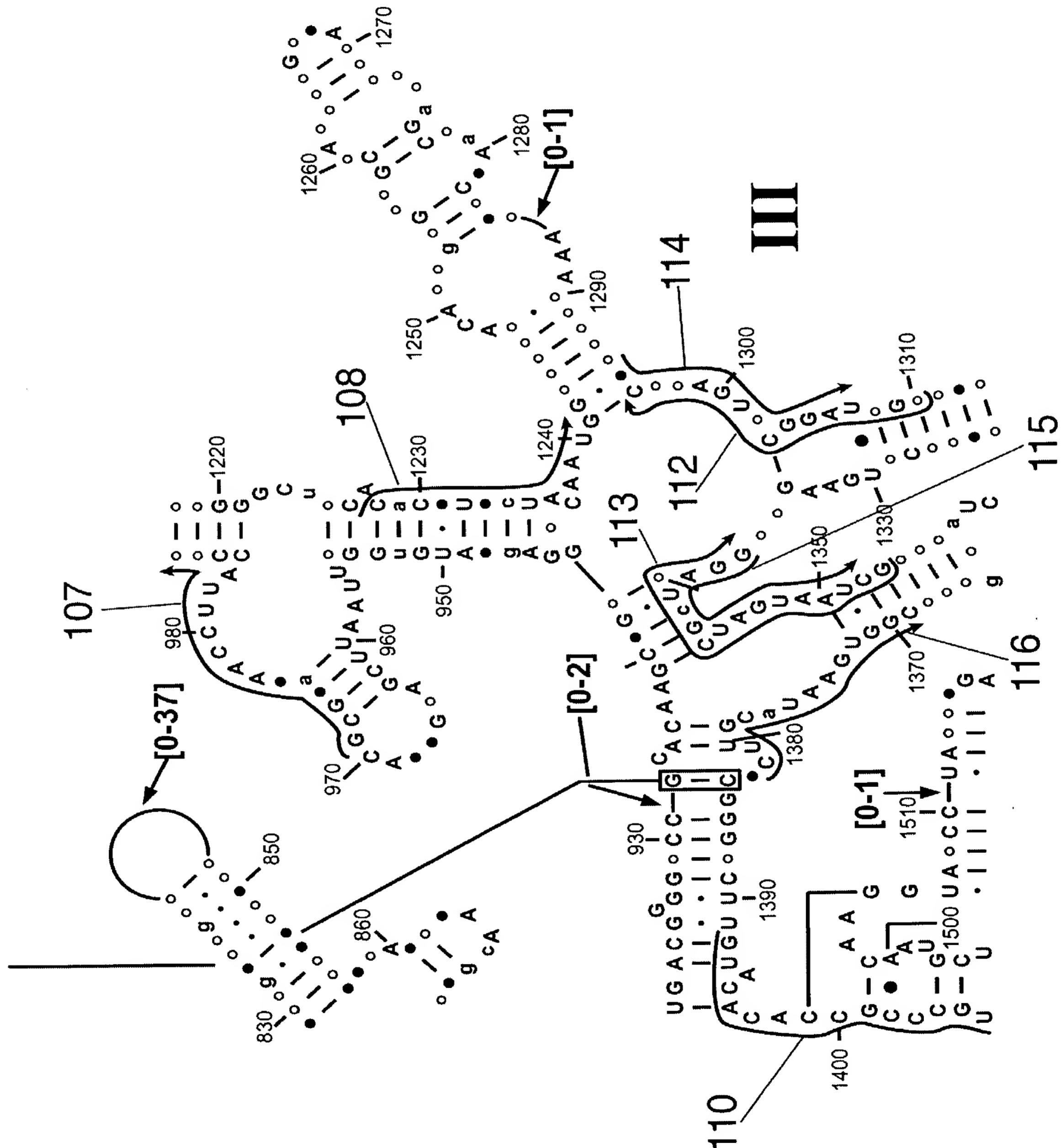


Fig. 1A-3

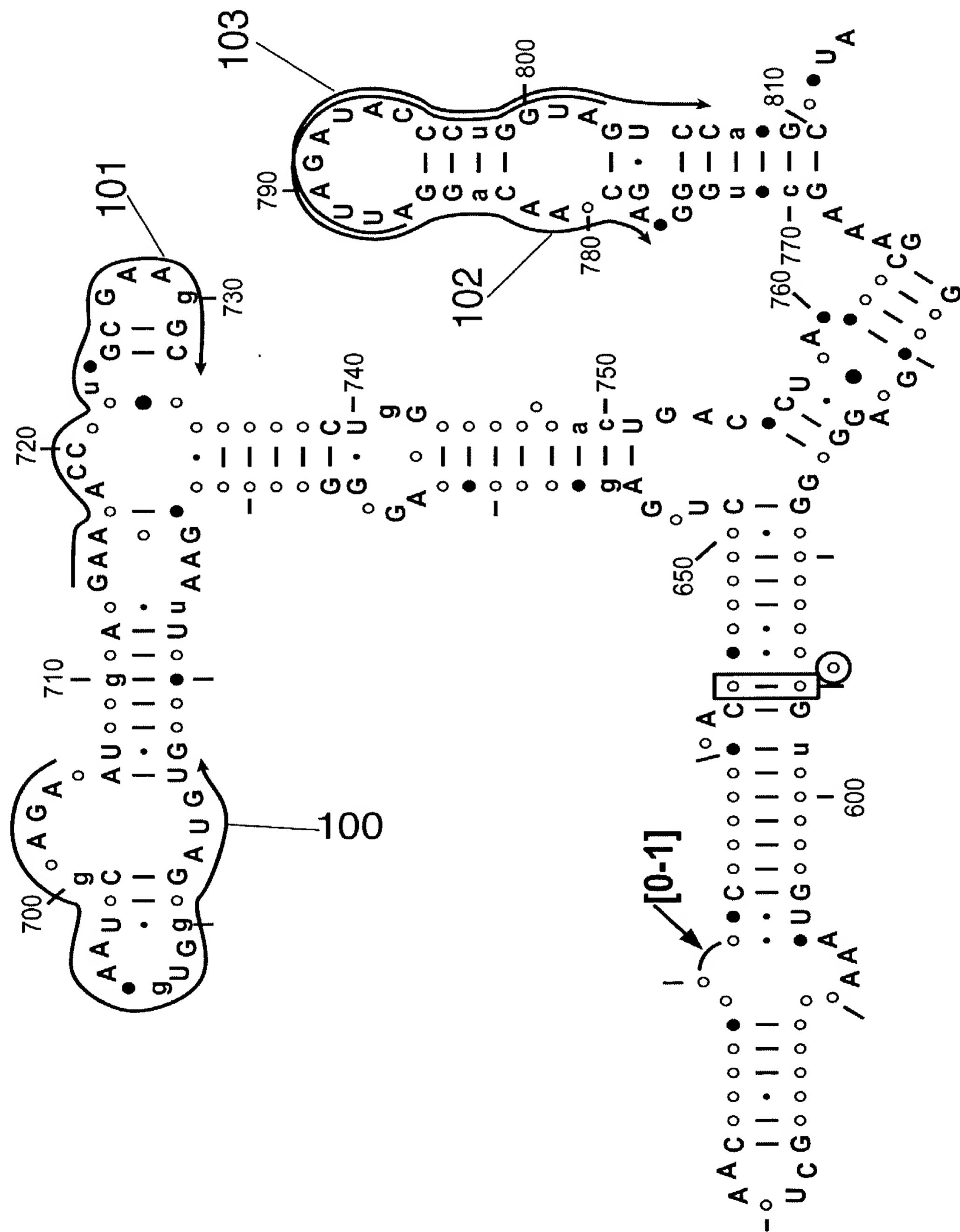


Fig. 1A-4

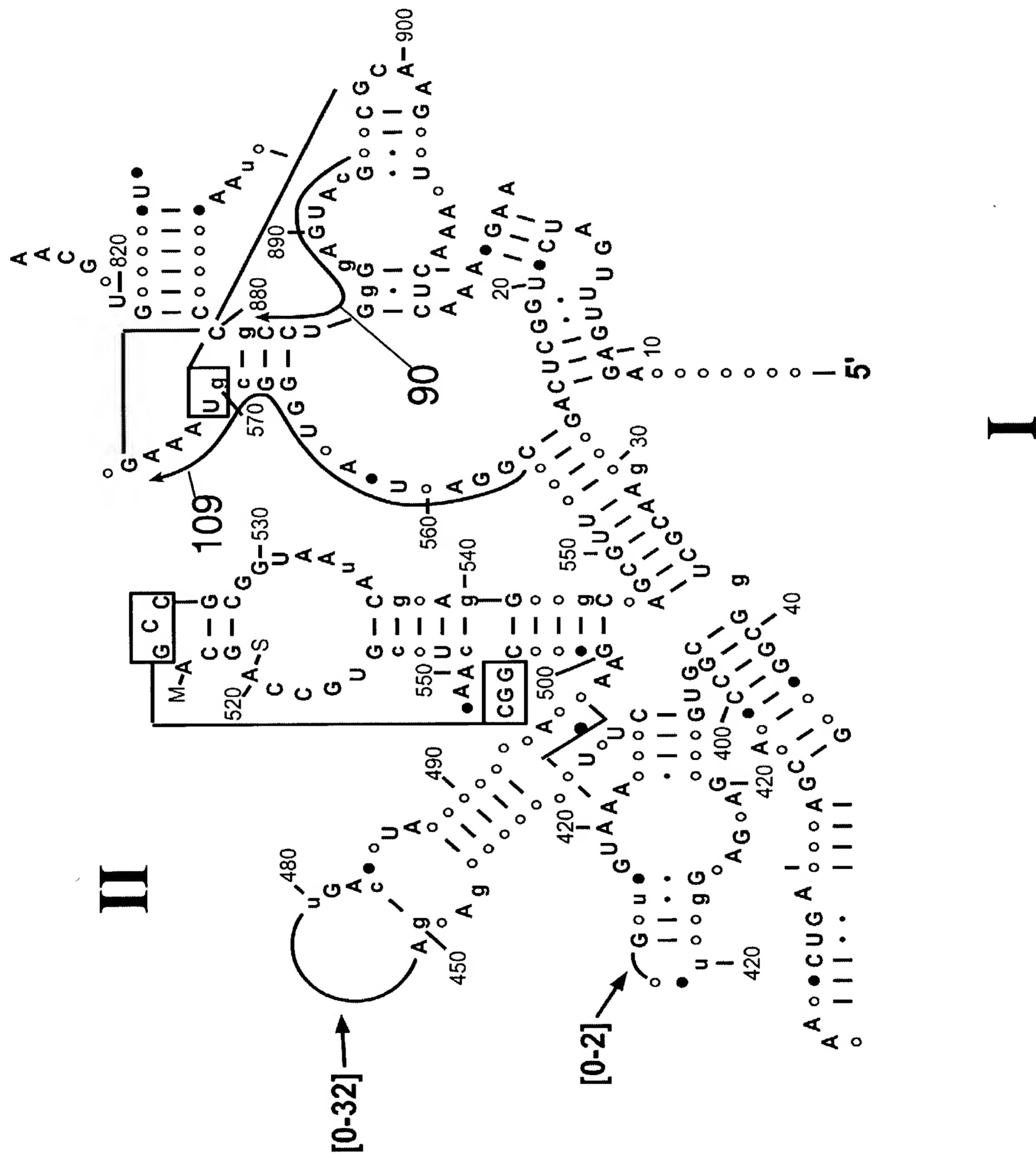


Fig. 1B-1

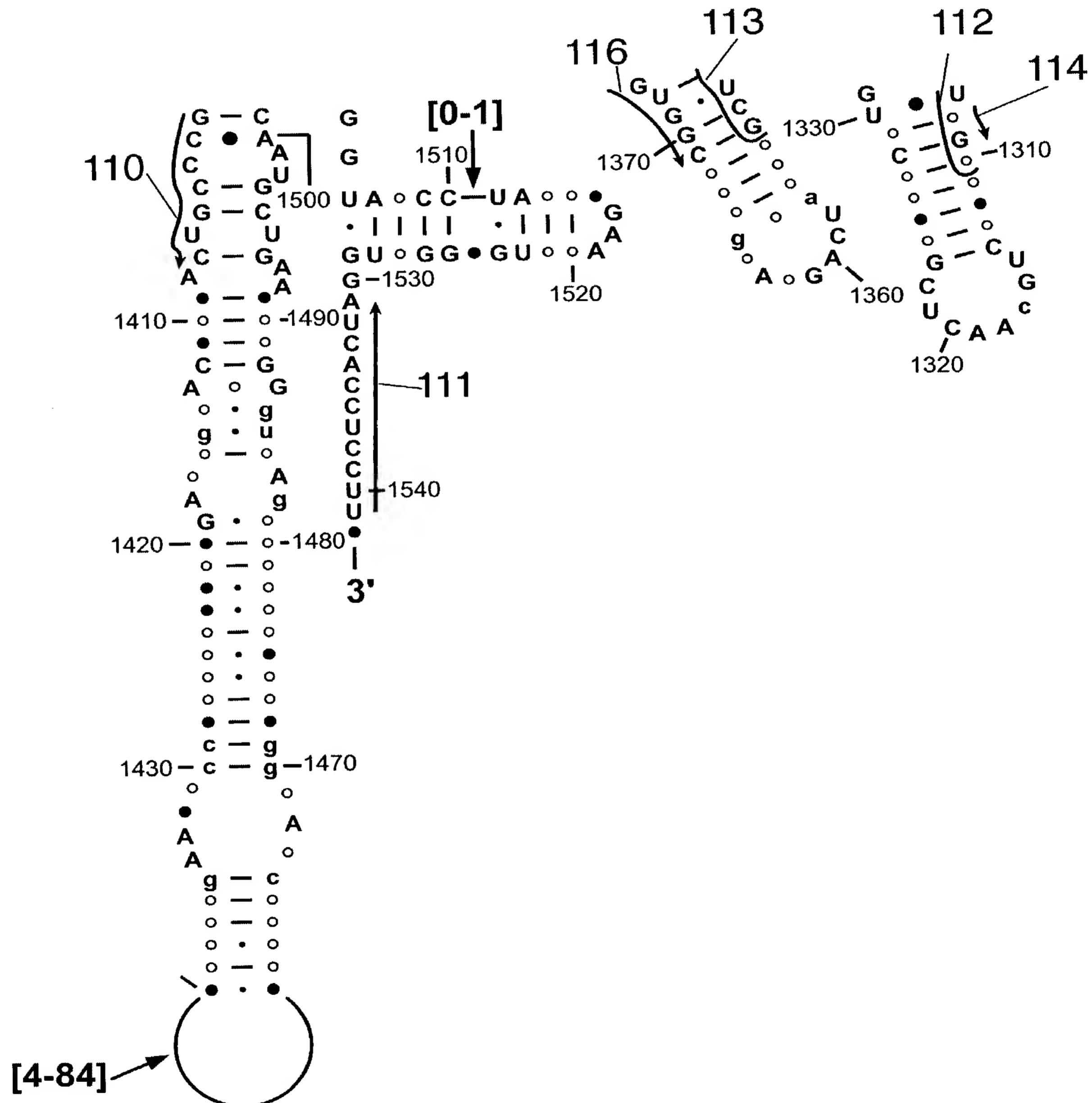


Fig. 1B-2

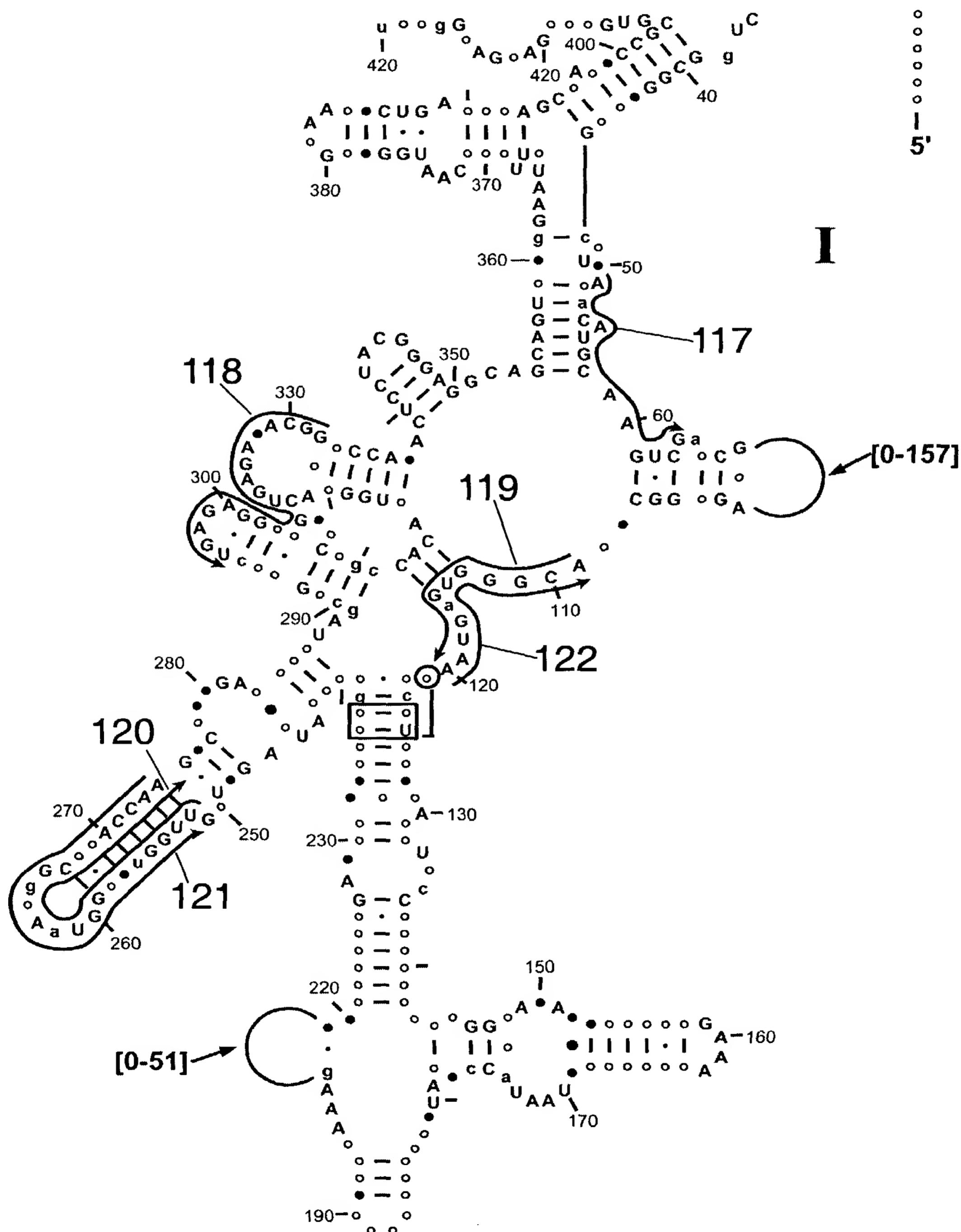


Fig. 1C-1

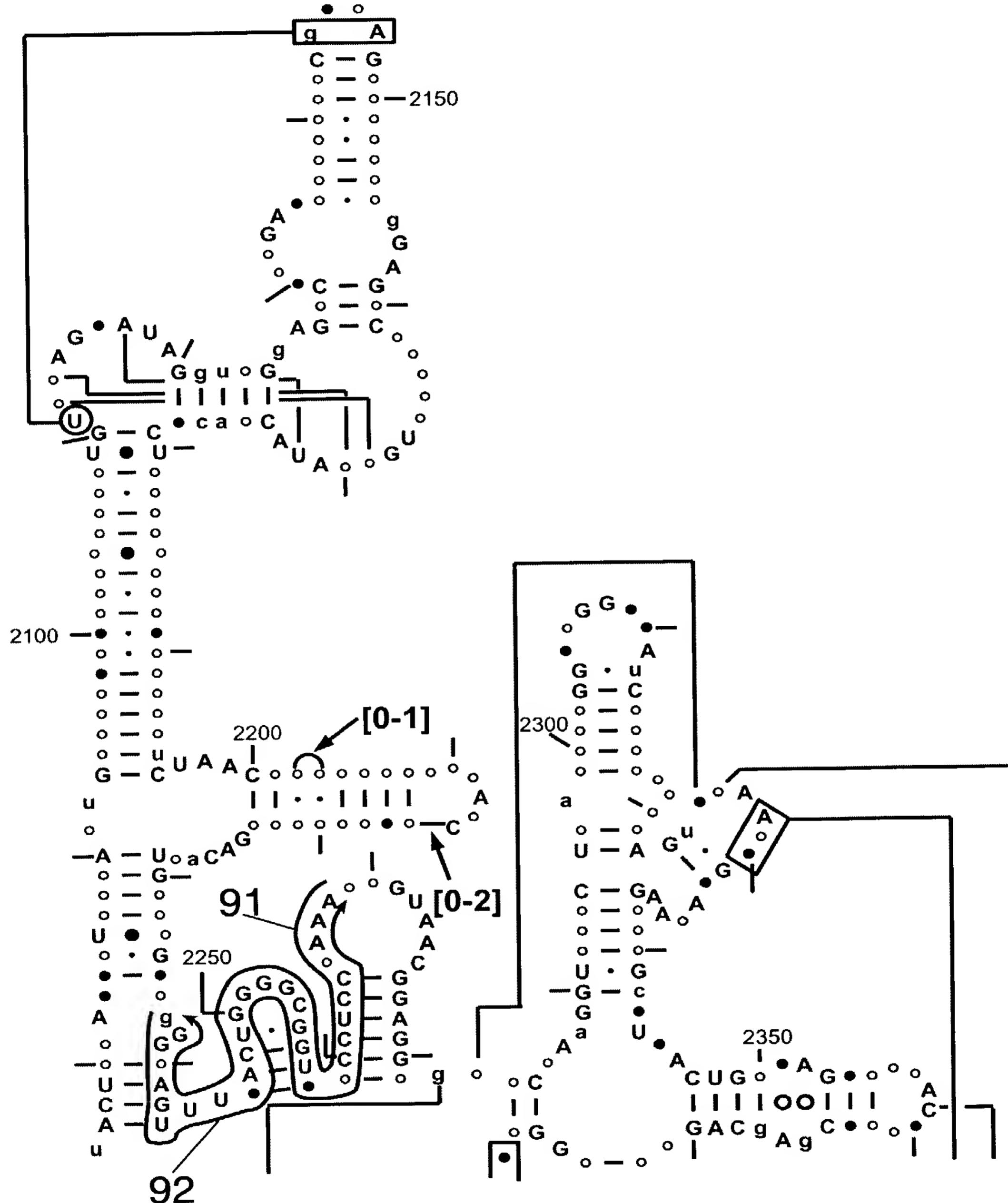


Fig. 1C-2

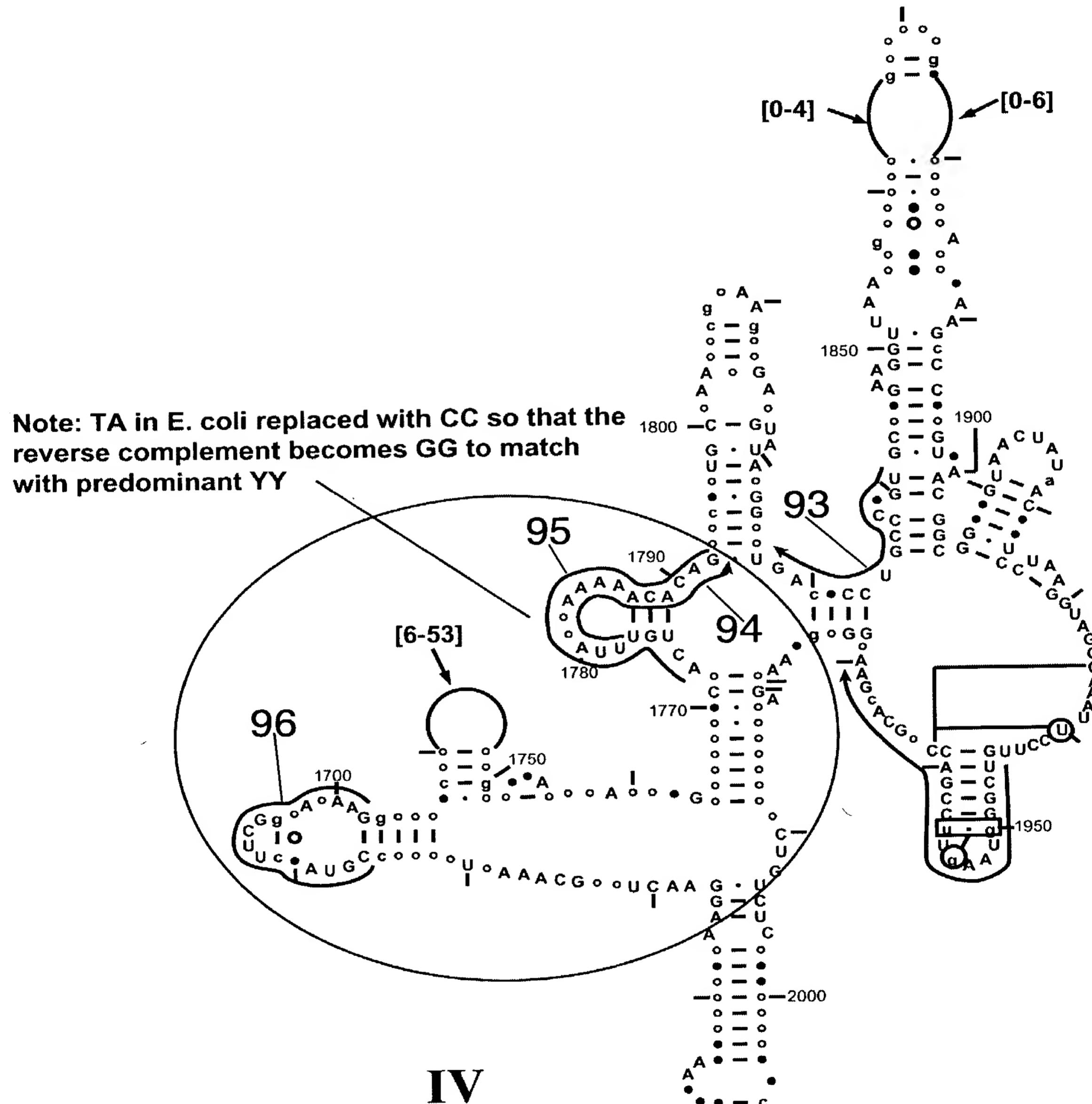


Fig. 1D

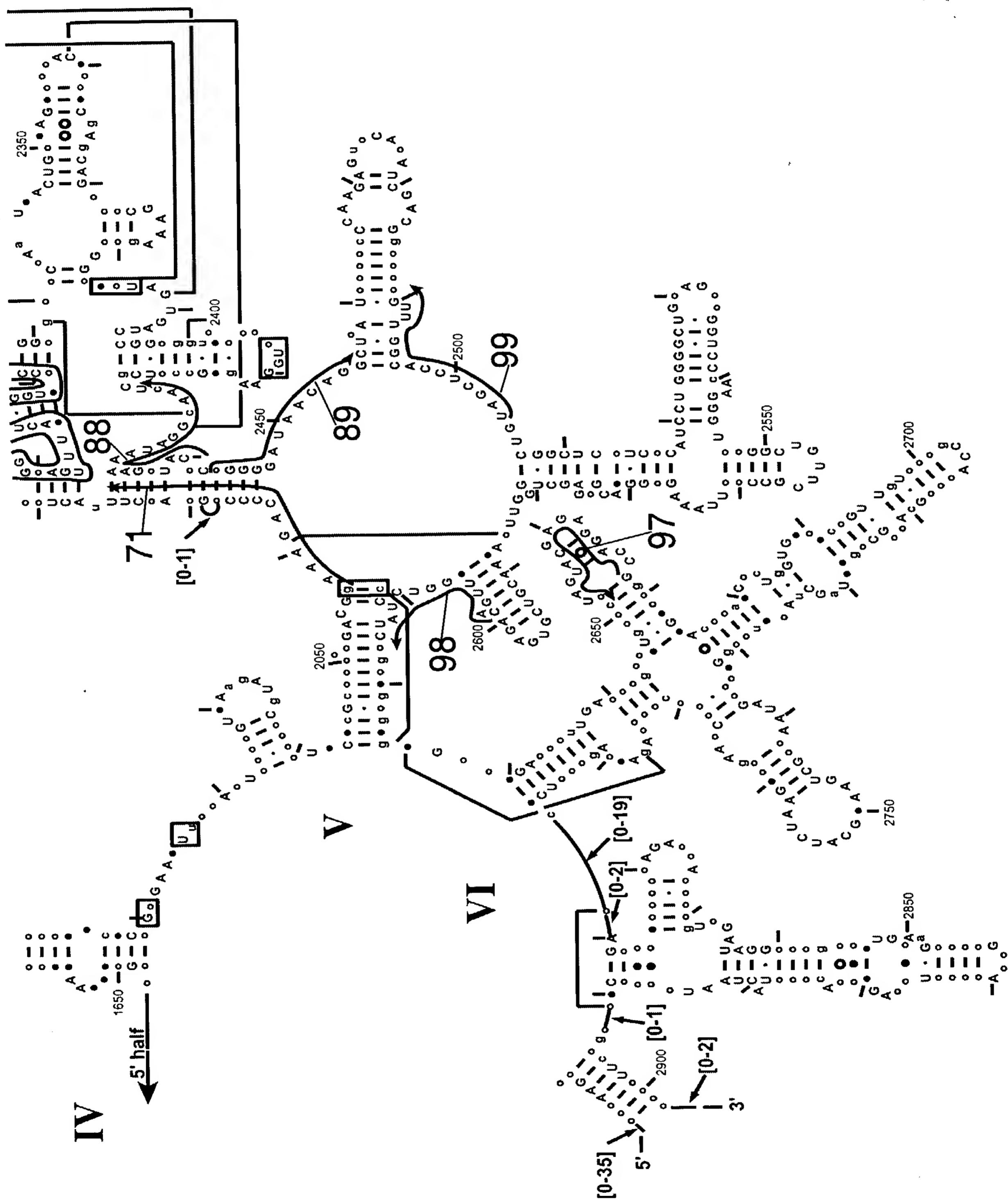


Fig. 1E

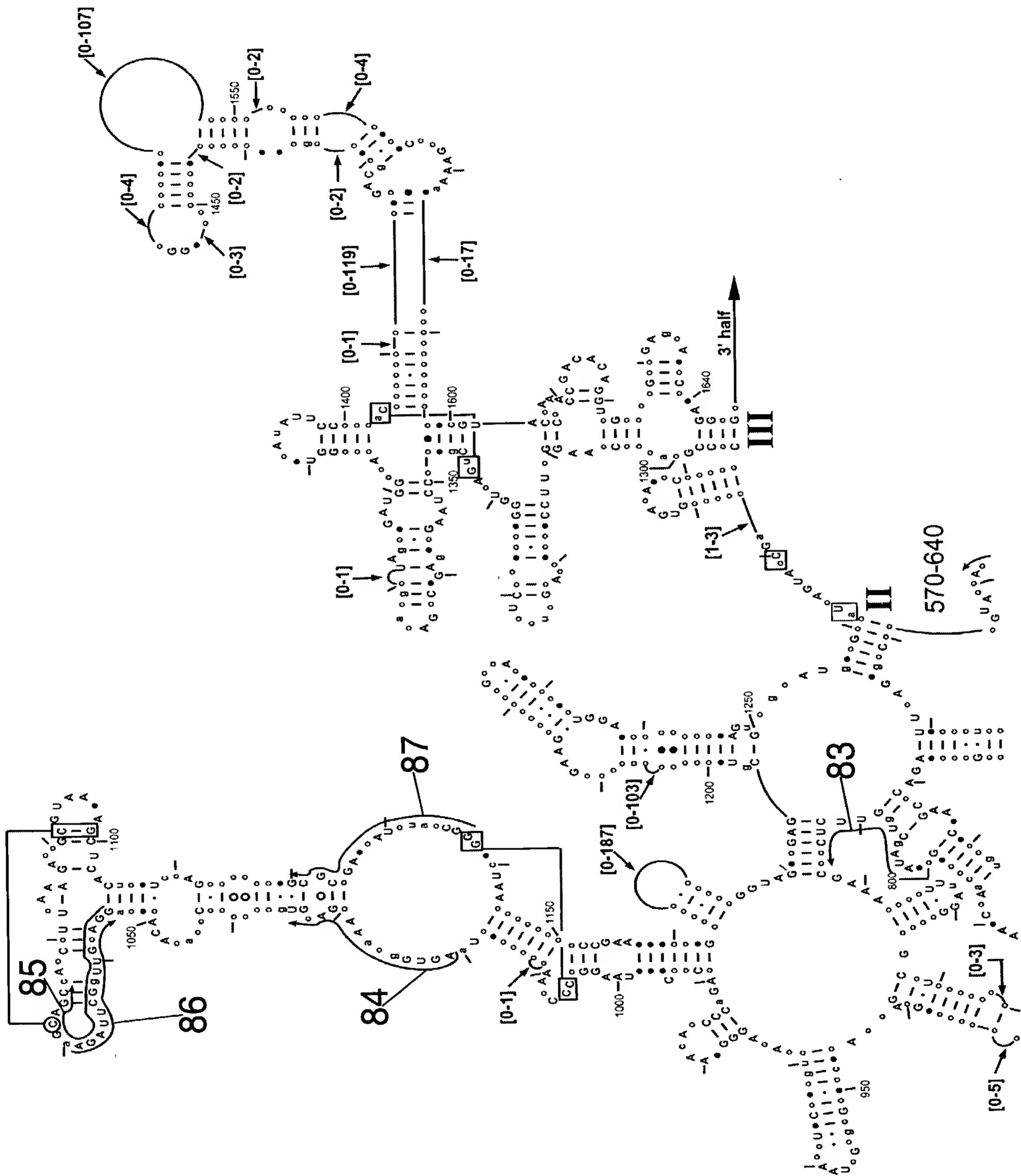


Fig. 1F

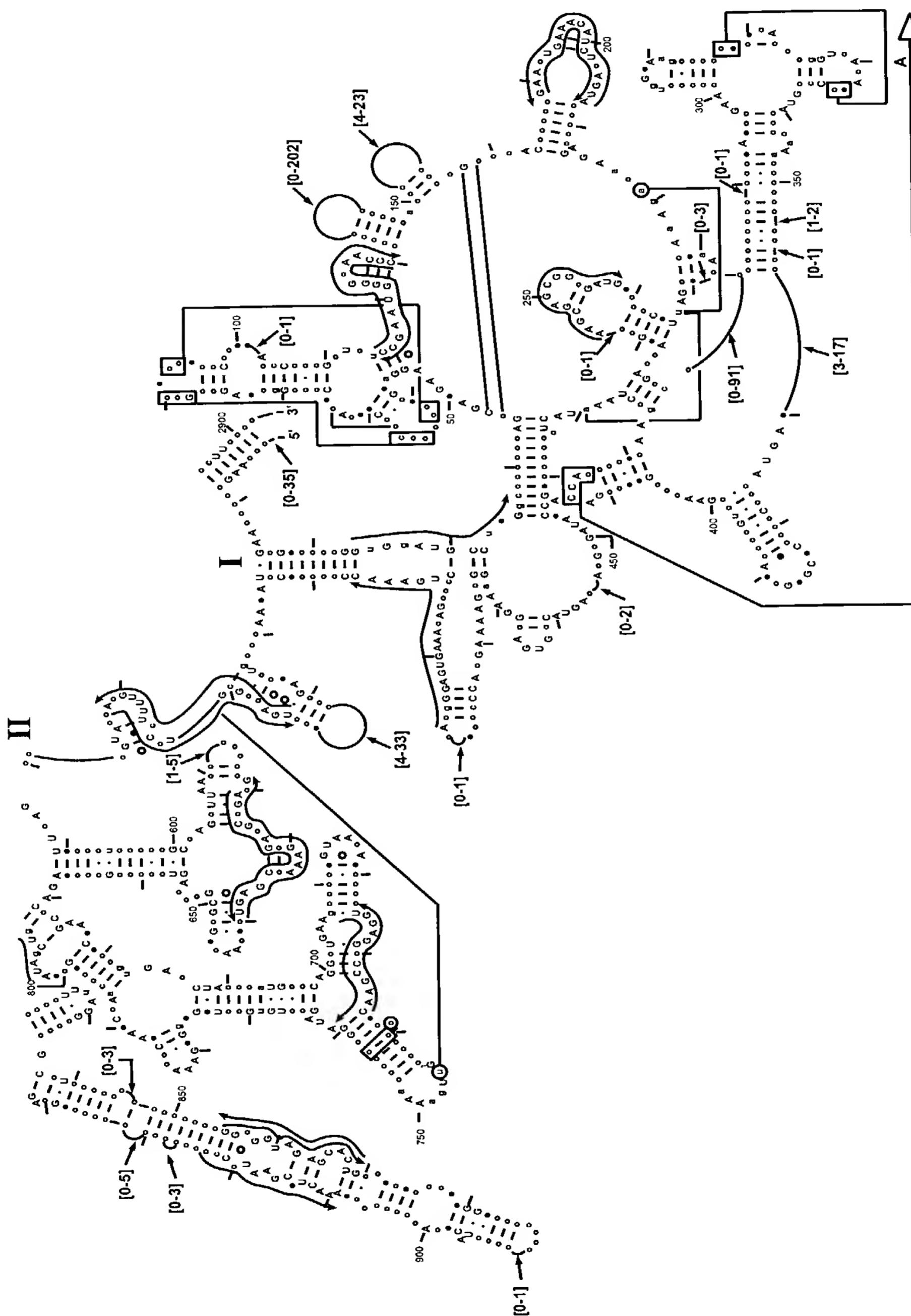


Fig. 1G

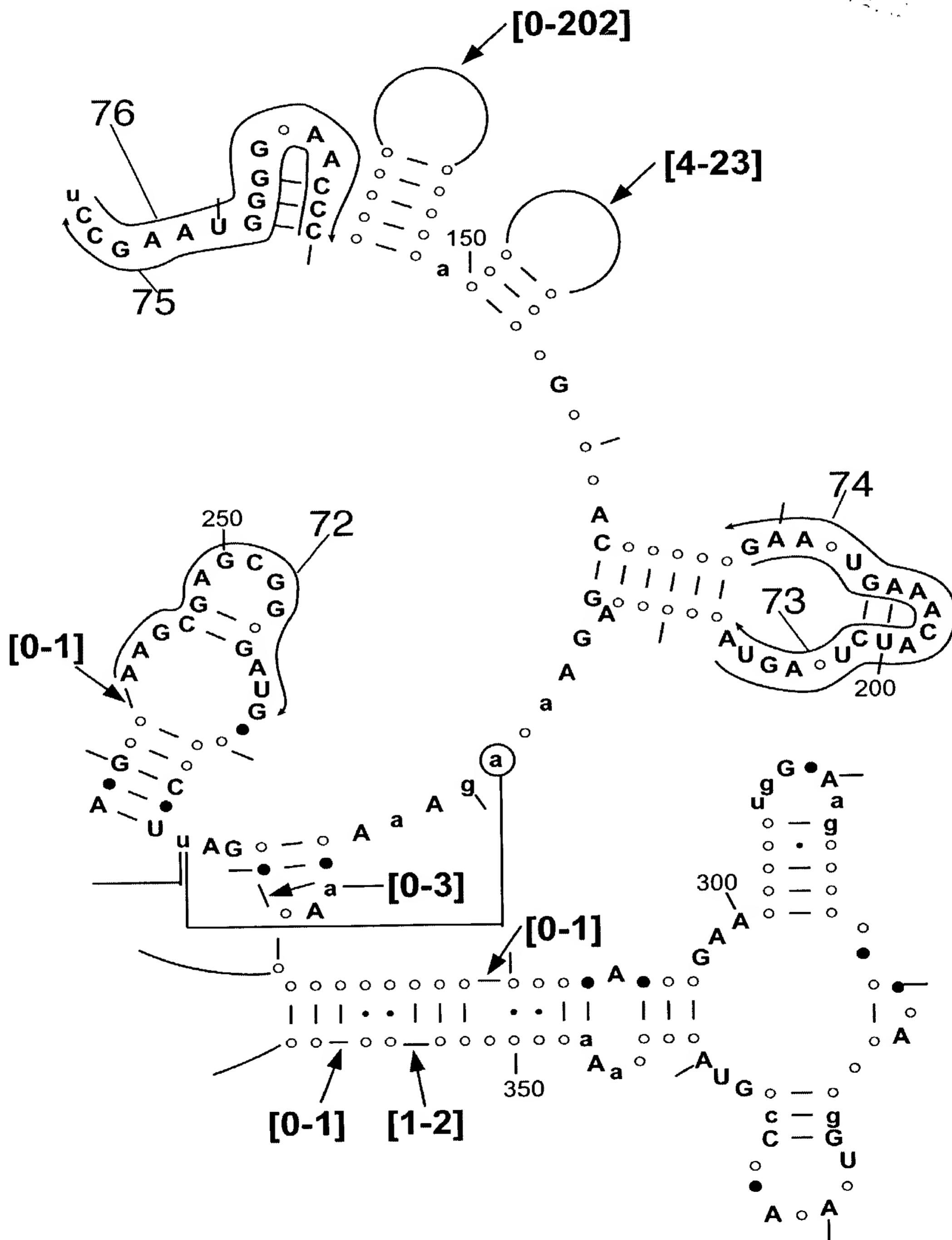


Fig. 1H

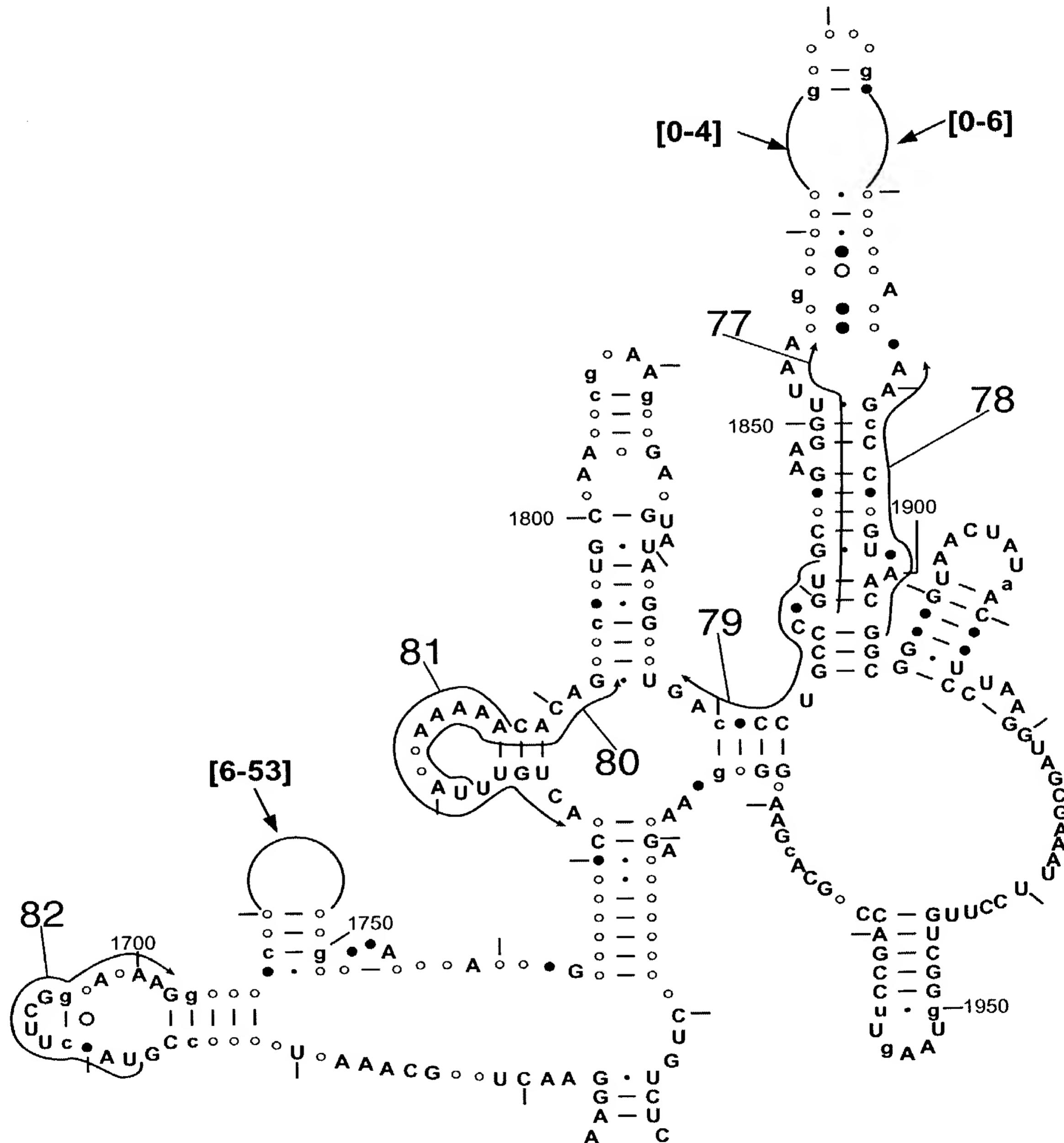


Fig. 2

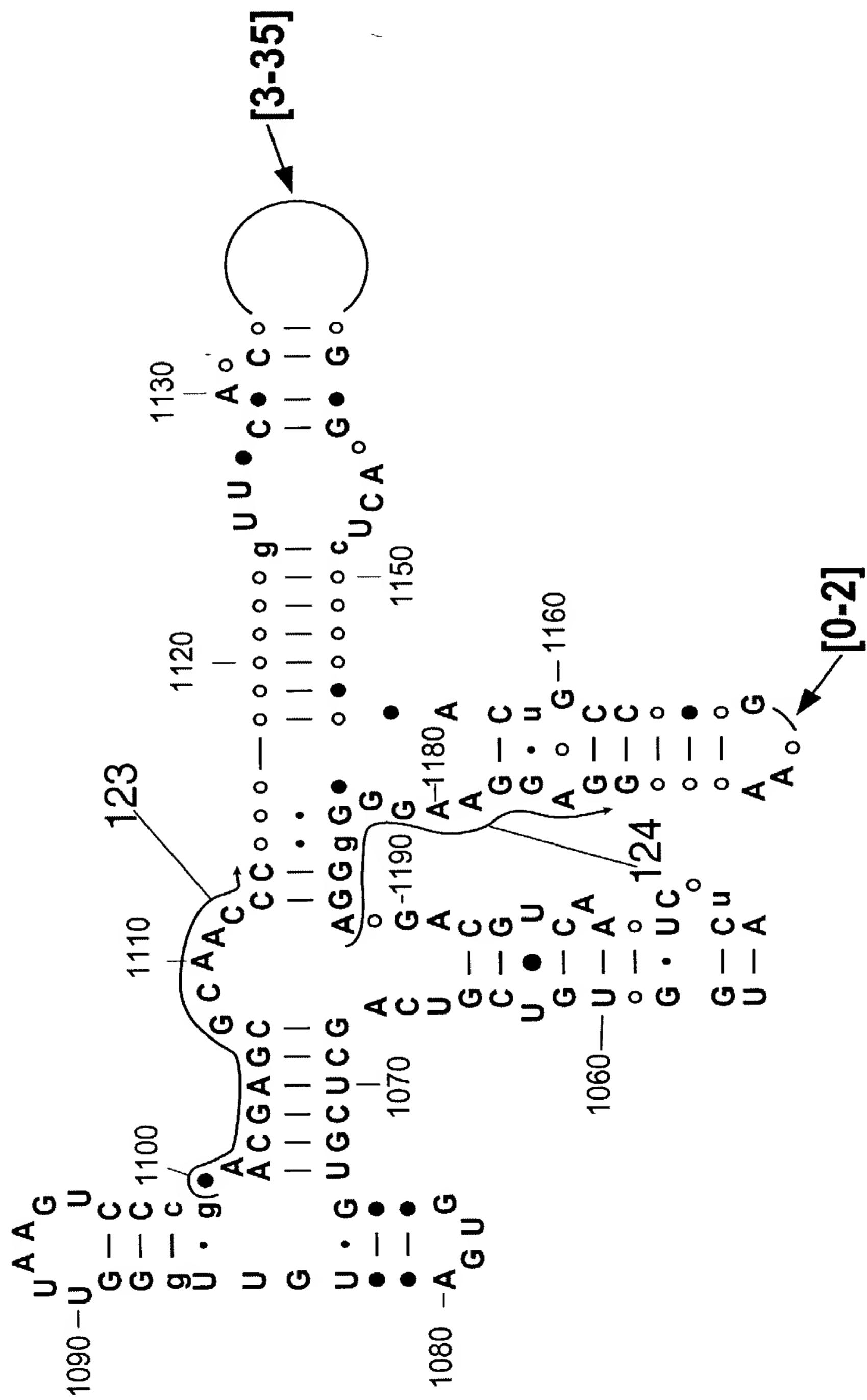


Fig. 3

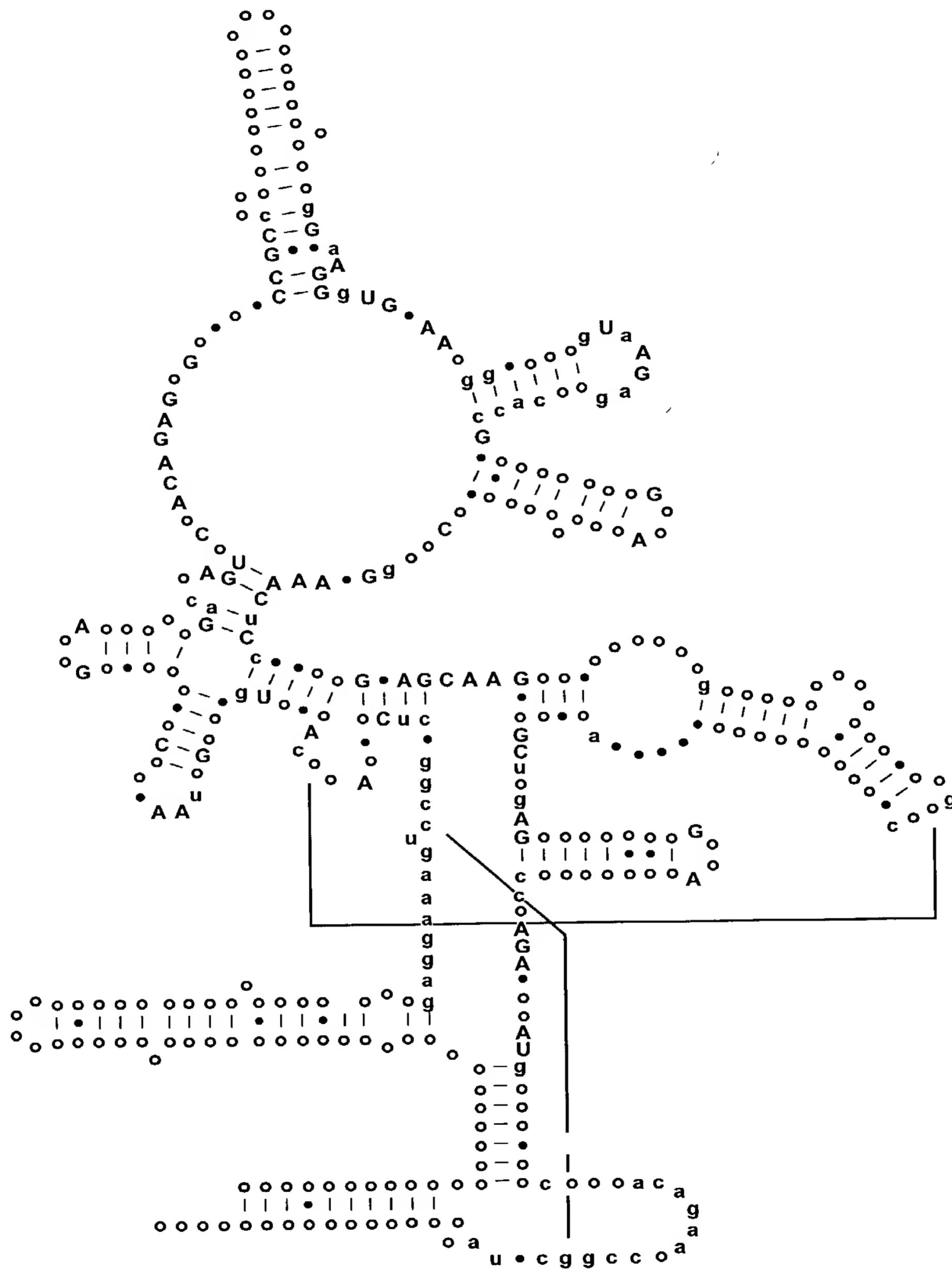


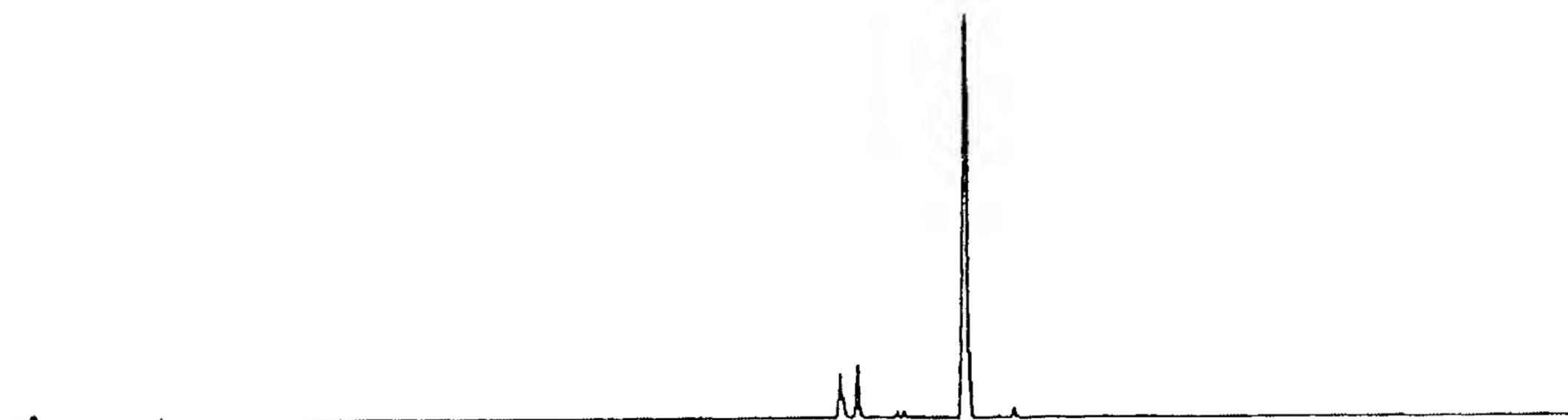
Fig. 4

The diagram illustrates the structure of a DNA double helix. On the left, the text *** tag** is followed by **mass (T*-T)=x**. In the center, the DNA sequence is shown as two parallel strands: *** TACGT TACGT *** and **ATGCATGCA**. Arrows point from the top strand to the **Watson** model (top strand) and from the bottom strand to the **Crick** model (bottom strand). The **Watson** model is labeled *** TACGT TACGT *** (Watson). The **Crick** model is labeled **ATGCATGCA** (Crick).

The diagram illustrates two models for DNA structure. On the left, the *** tag** model is shown with the sequence **ATGCATGCA**. Two asterisks are placed below the second and third bases ('G' and 'C'). An arrow points from this sequence to the **Watson** model on the right, which is **TACGTACGT**. The first and last bases ('T' and 'T') are marked with asterisks. On the right, the **Crick** model is shown with the sequence **ATGCTATGCA**. The second and third bases ('C' and 'T') are marked with asterisks. The text **mass (C*-C)=y** is written below the sequence.

Fig. 5

***B. anthracis* ($A_{14}G_9C_{14}T_9$) $MW_{meas} = 14072.2$)**



***B. anthracis** ($A_1A^{*}_{13}G_9C_{14}T_9$) $MW_{meas} = 14280.9$)**

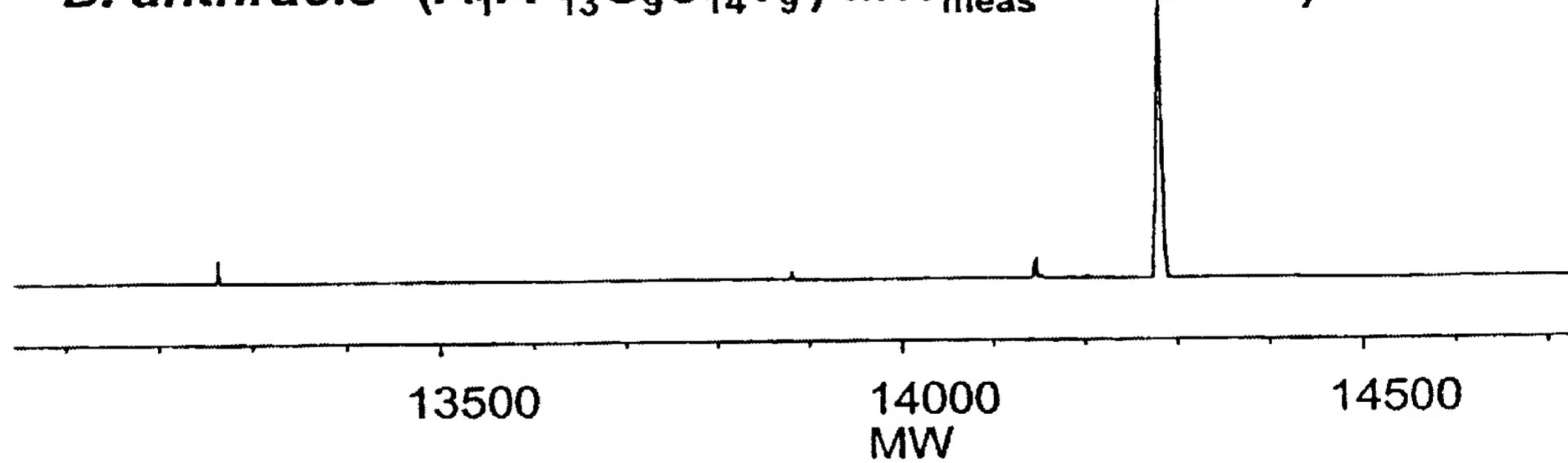
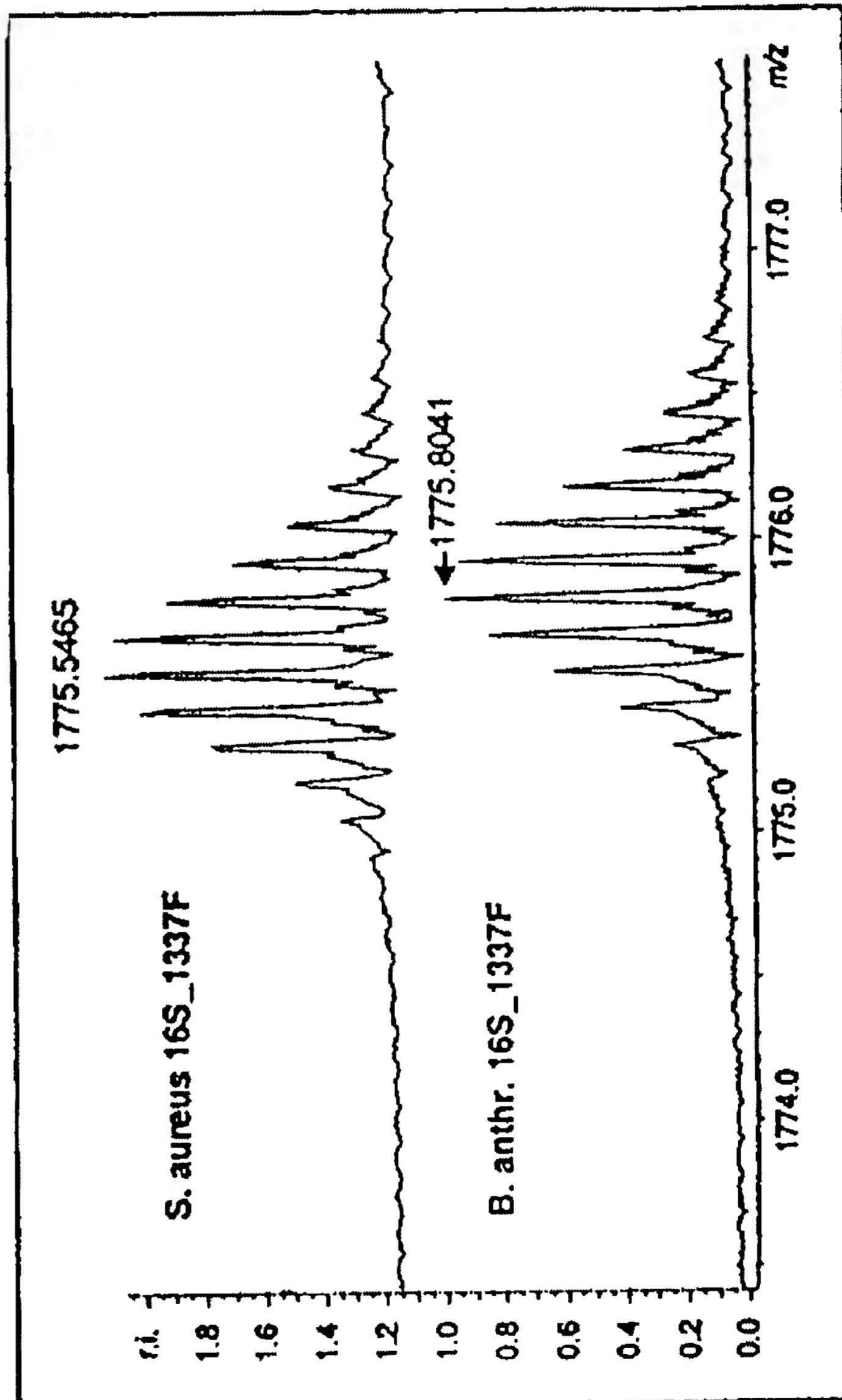
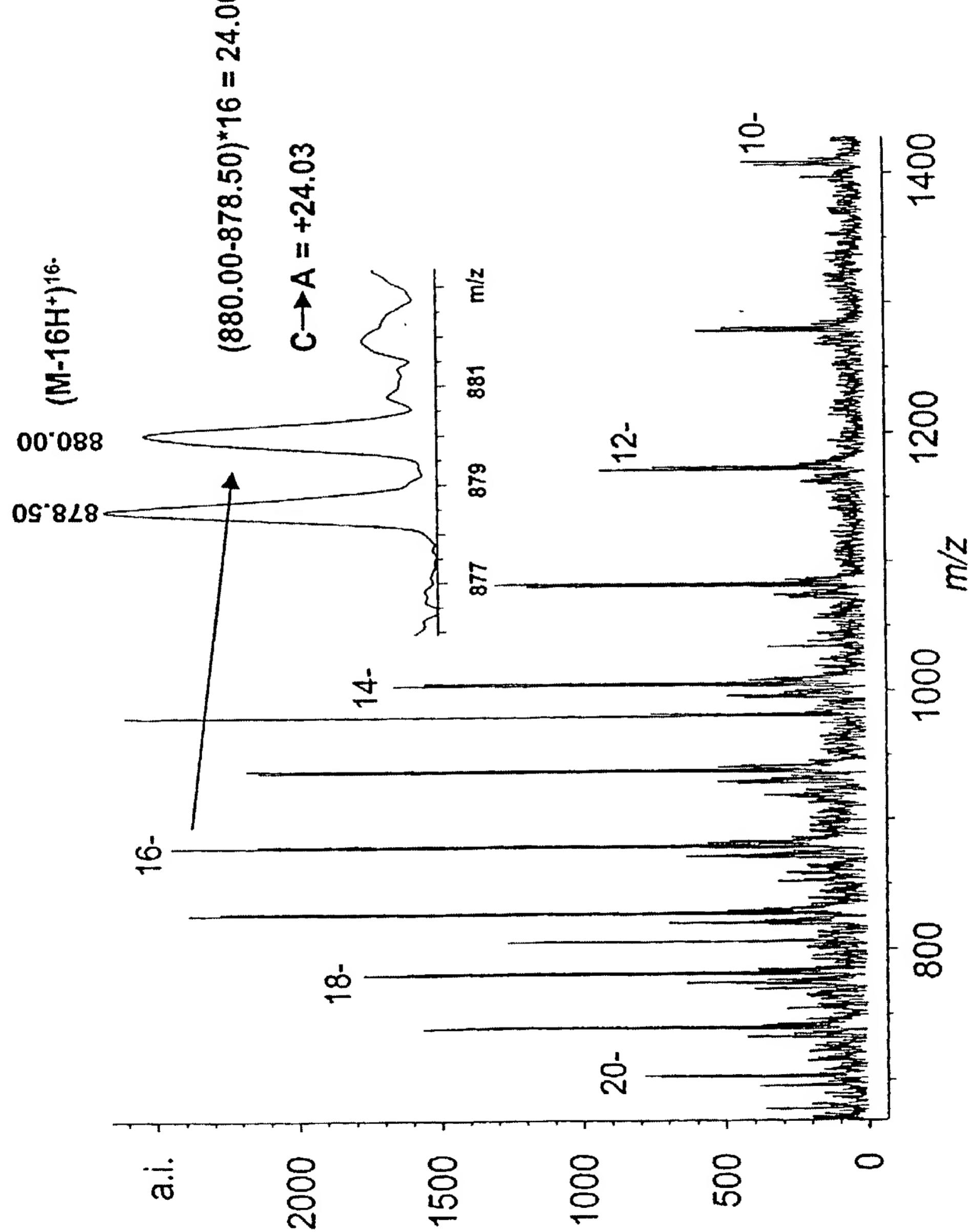


Fig. 6





Title: SECONDARY STRUCTURE DEFINING DATABASE AND METHODS
 FOR DETERMINING IDENTITY AND GEOGRAPHIC ORIGIN OF AN
 UNKNOWN BIOAGENT THE REBY
 Inventor(s): David J. Eckert, Richard Griffey, Ranagaran Sampath, Steven
 Hofstader, John McNeil, Stanley T. Crooke
 Sheet 19 of 29

1000
 800
 600
 400
 200
 0

ESI-TOF MS of sspE 56mer + Calibrant

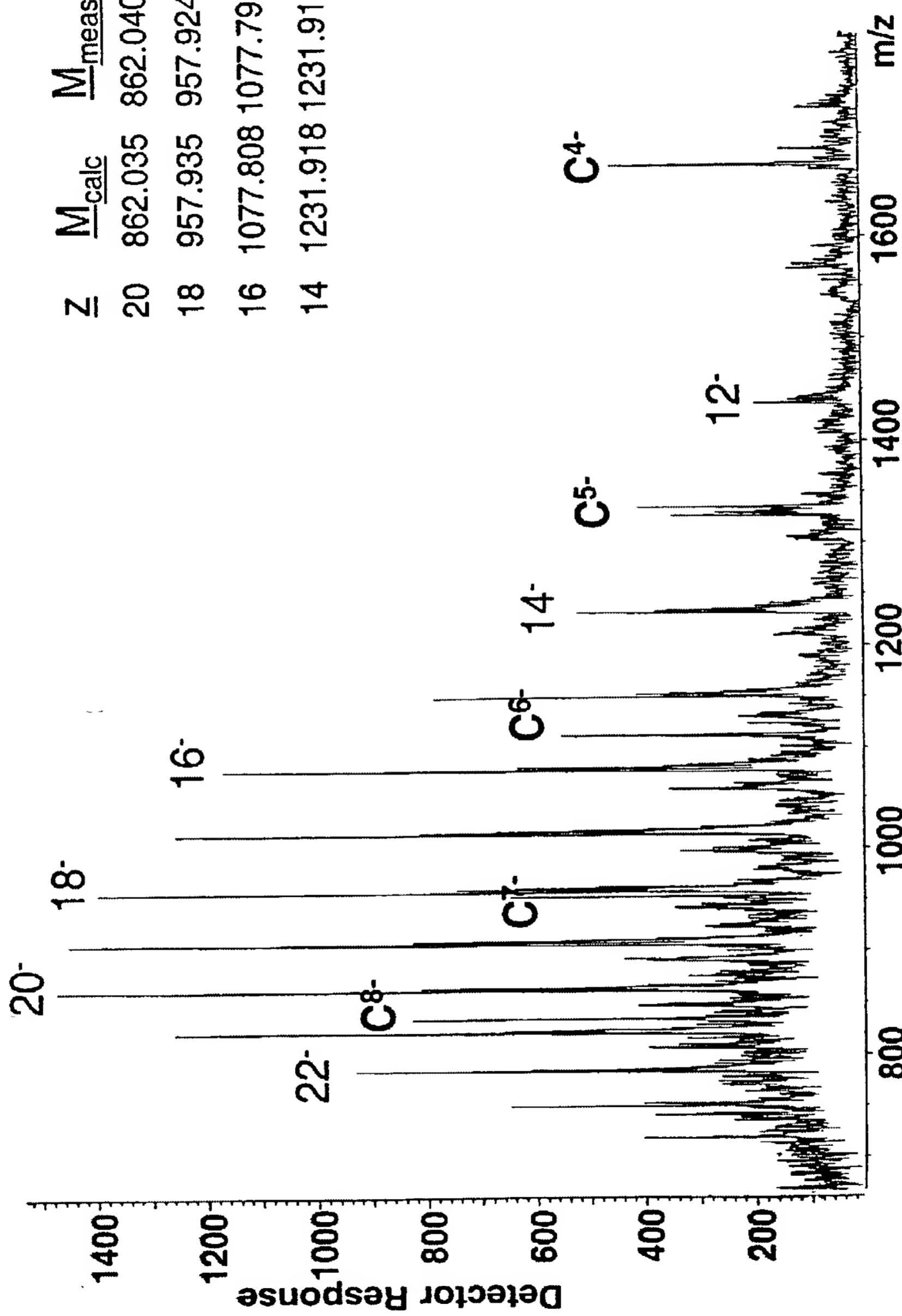


Fig. 8

Bacillus anthracis – ESI-TOF
Synthetic 16S_1228 duplex (Reverse and Forward strands)

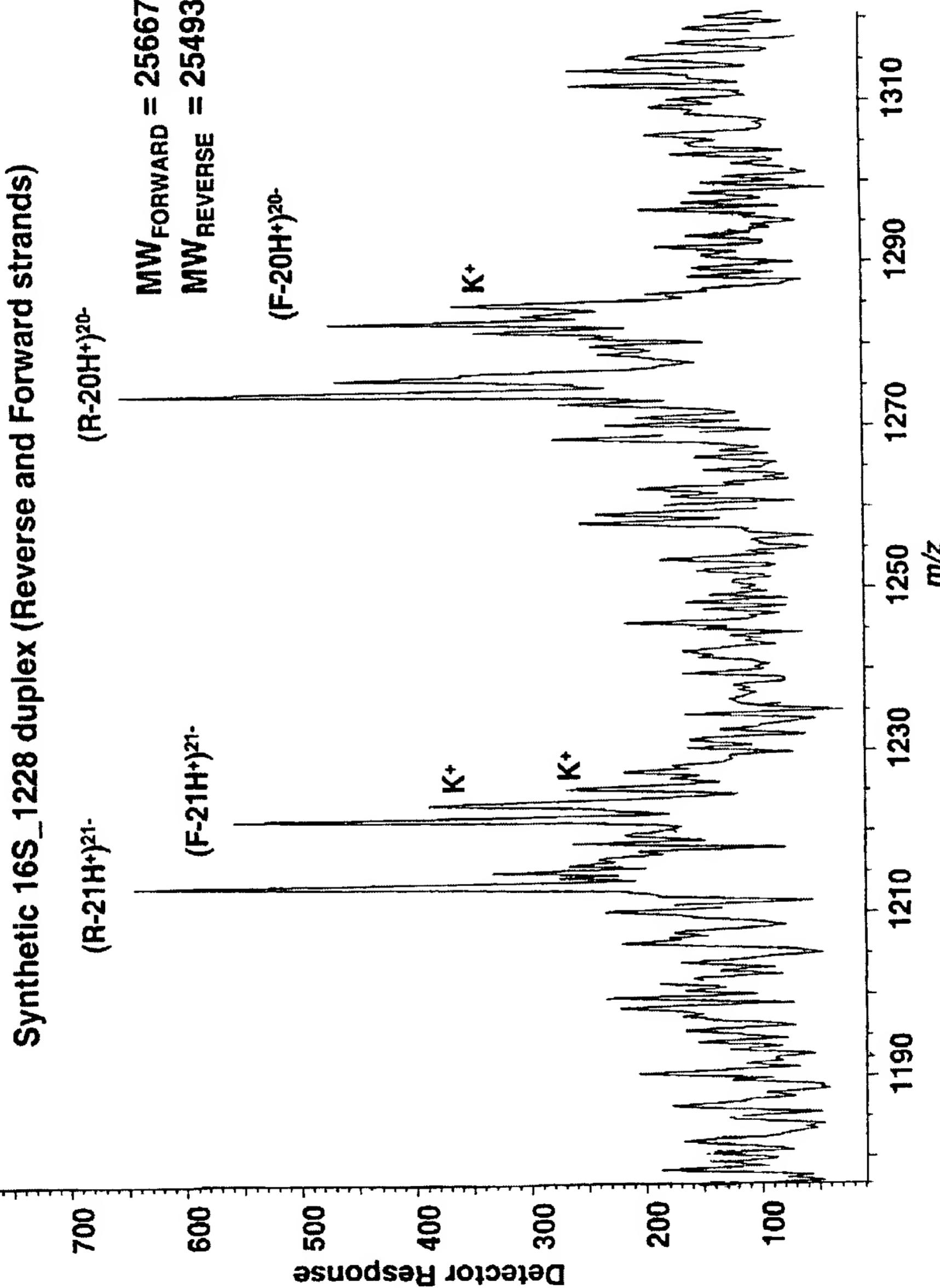


Fig. 9

ESI-FTICR-MS of
Synthetic *Bacillus anthracis* 16S_1337 46 bp duplex

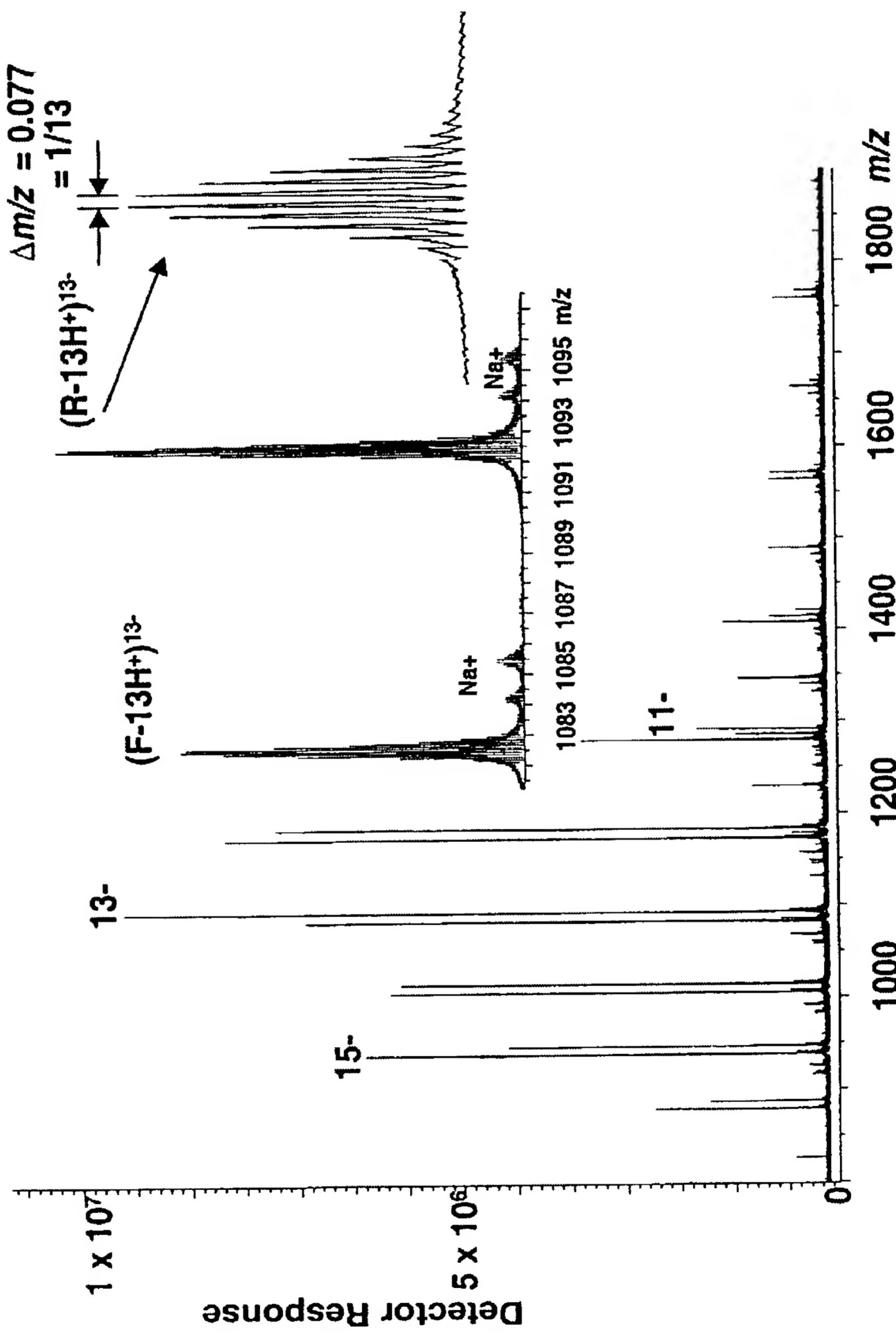


Fig. 10

ESI-TOF-MS of 56-mer BAsb Oligonucleotide
With internal mass standard
ESI at 1.7 μ L/min 5 μ M solution

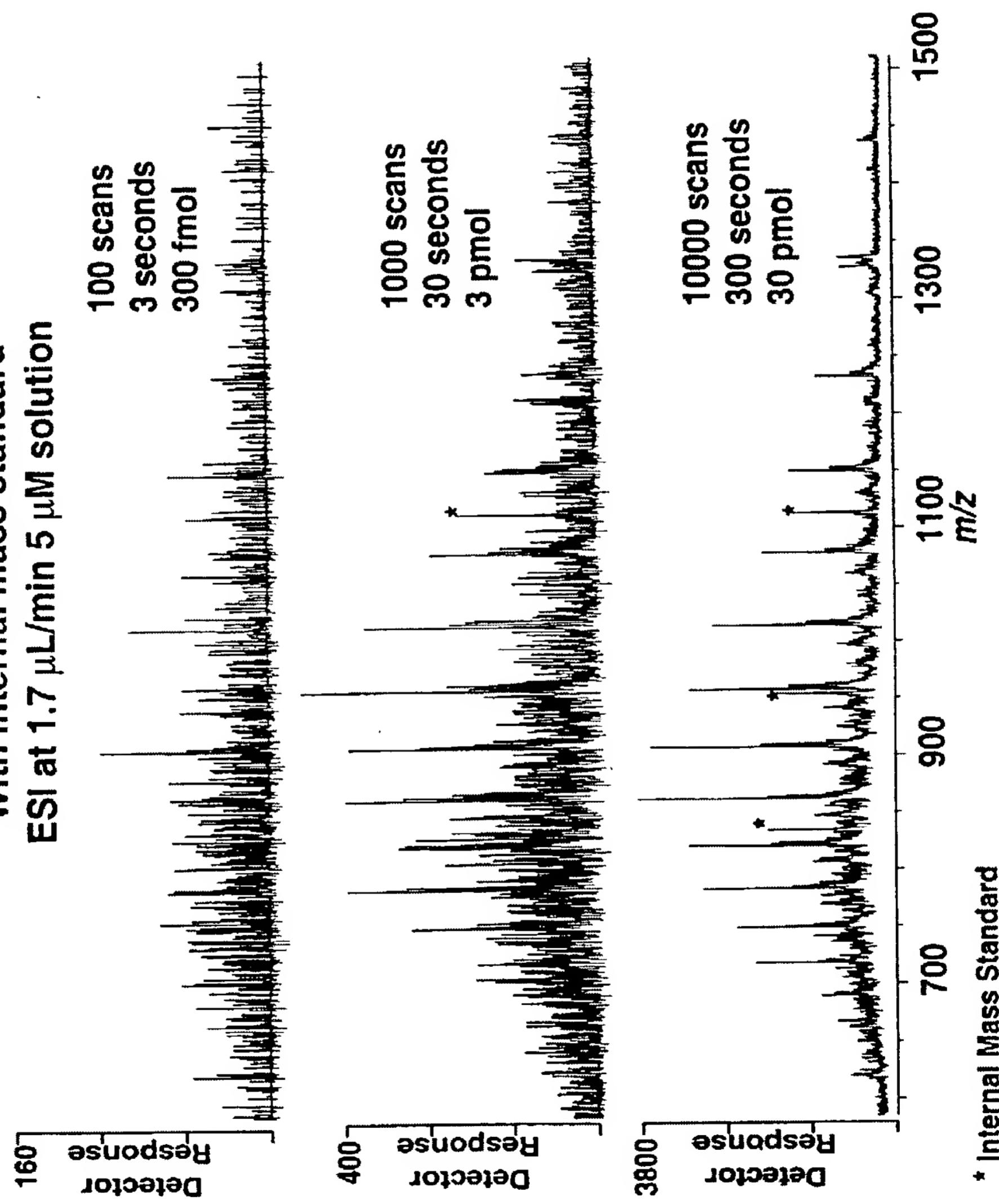


Fig. 11

ESI-TOF-MS of Internal Standard with 5 mM TBA-TFA buffer
Charge Stripping with Tributylammonium trifluoroacetate reduces
most abundant charge state from $[M-8H^+]^{8-}$ to $[M-3H^+]^{3-}$

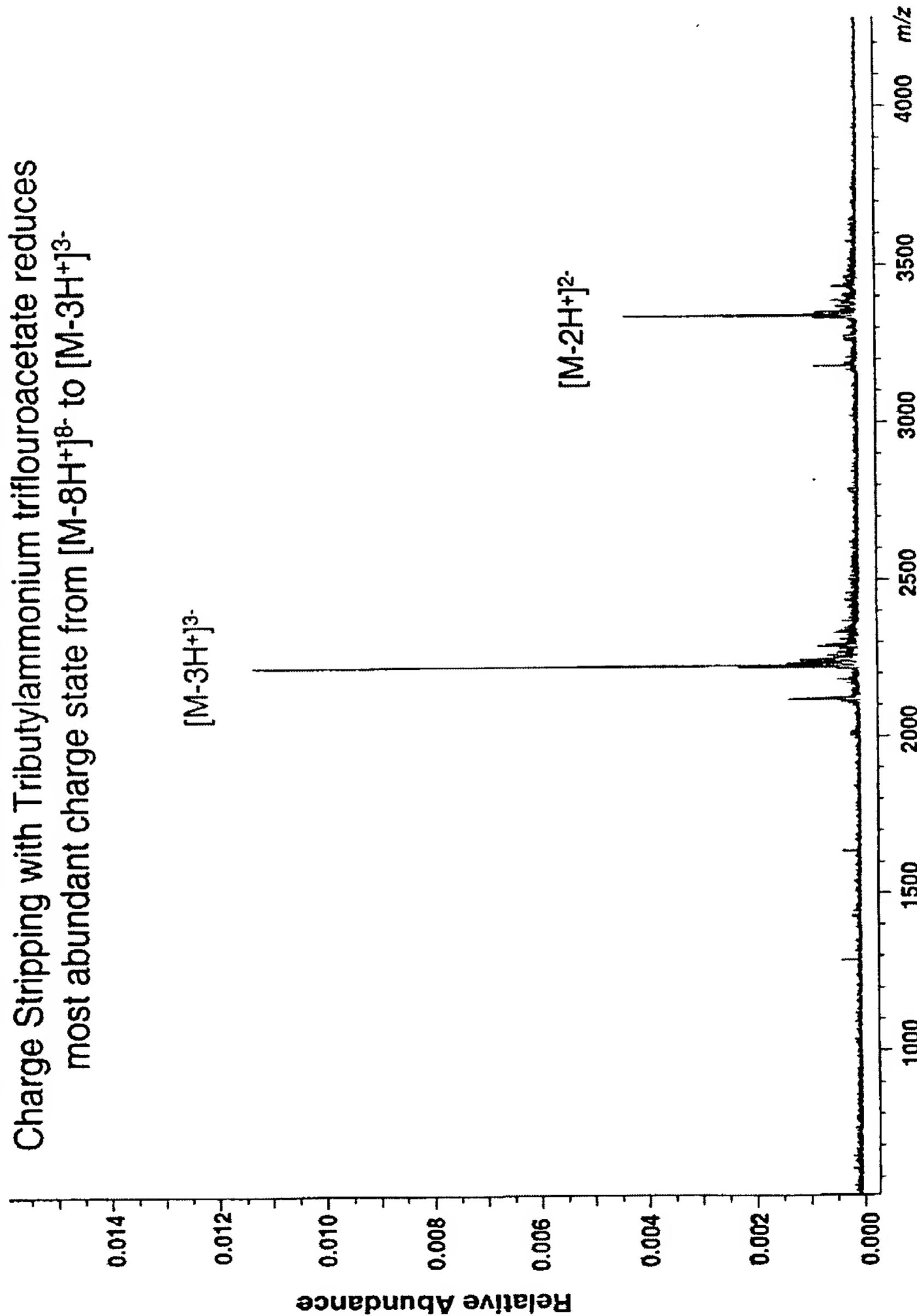


Fig. 12

Fig. 13.

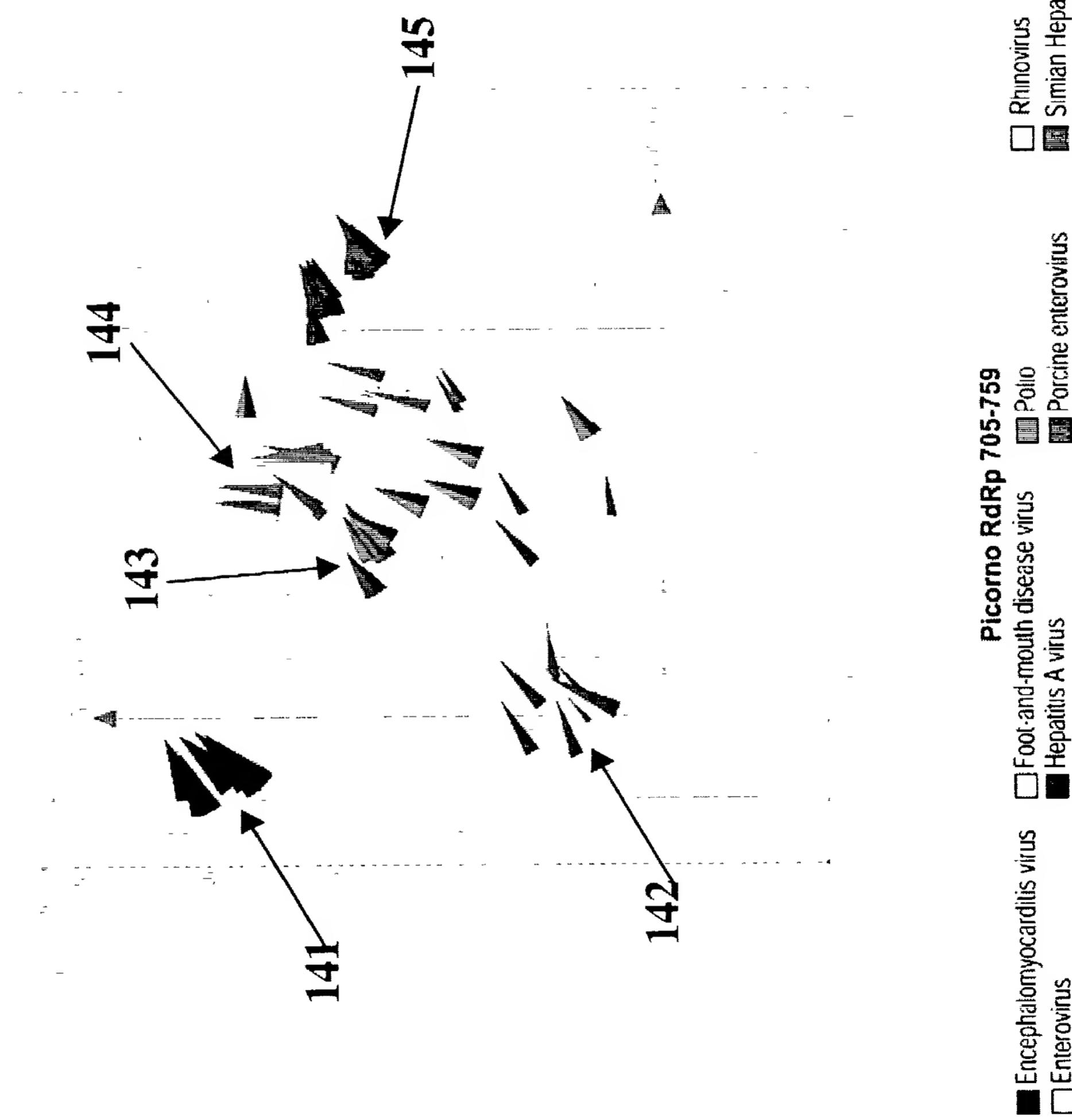


Fig. 15

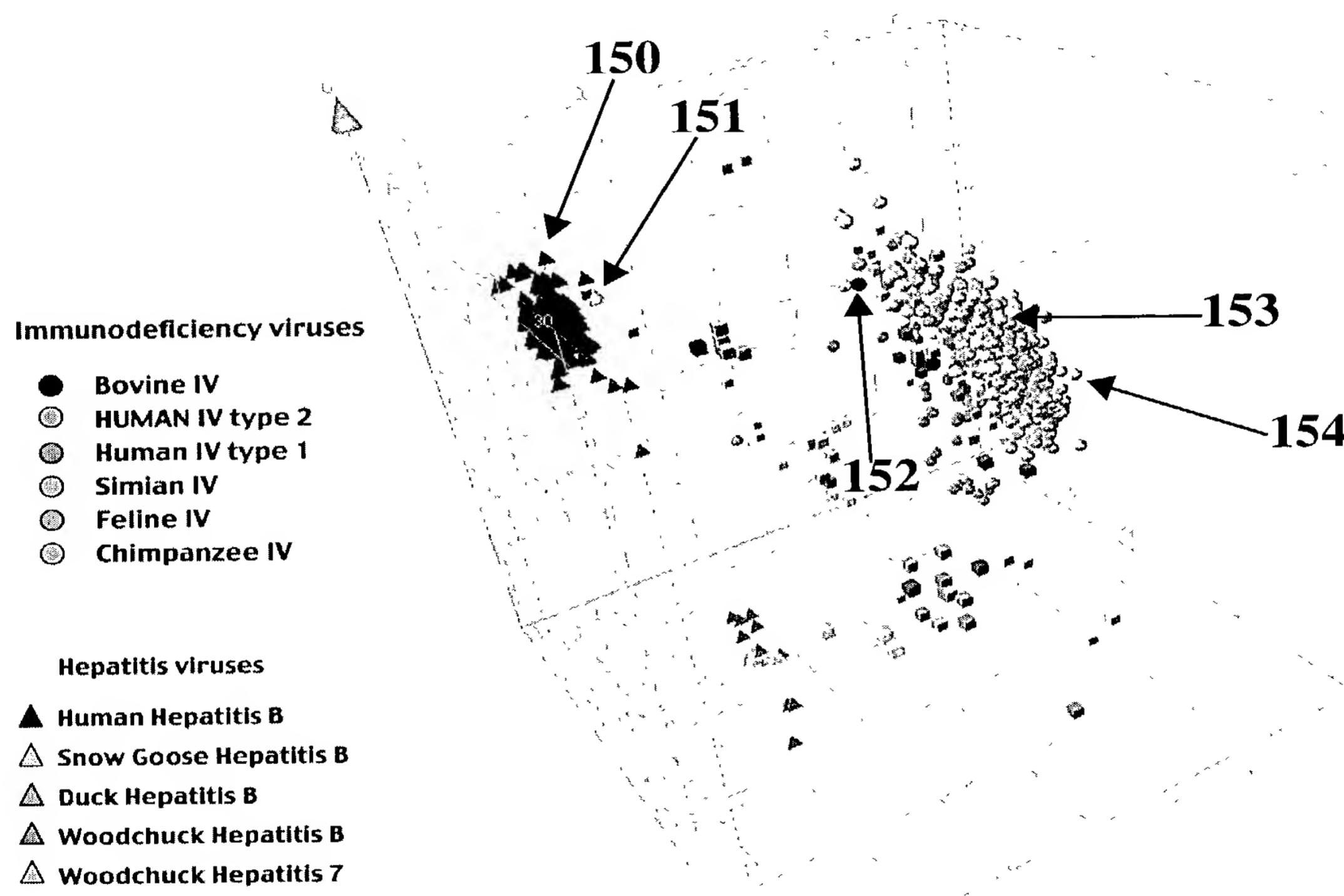
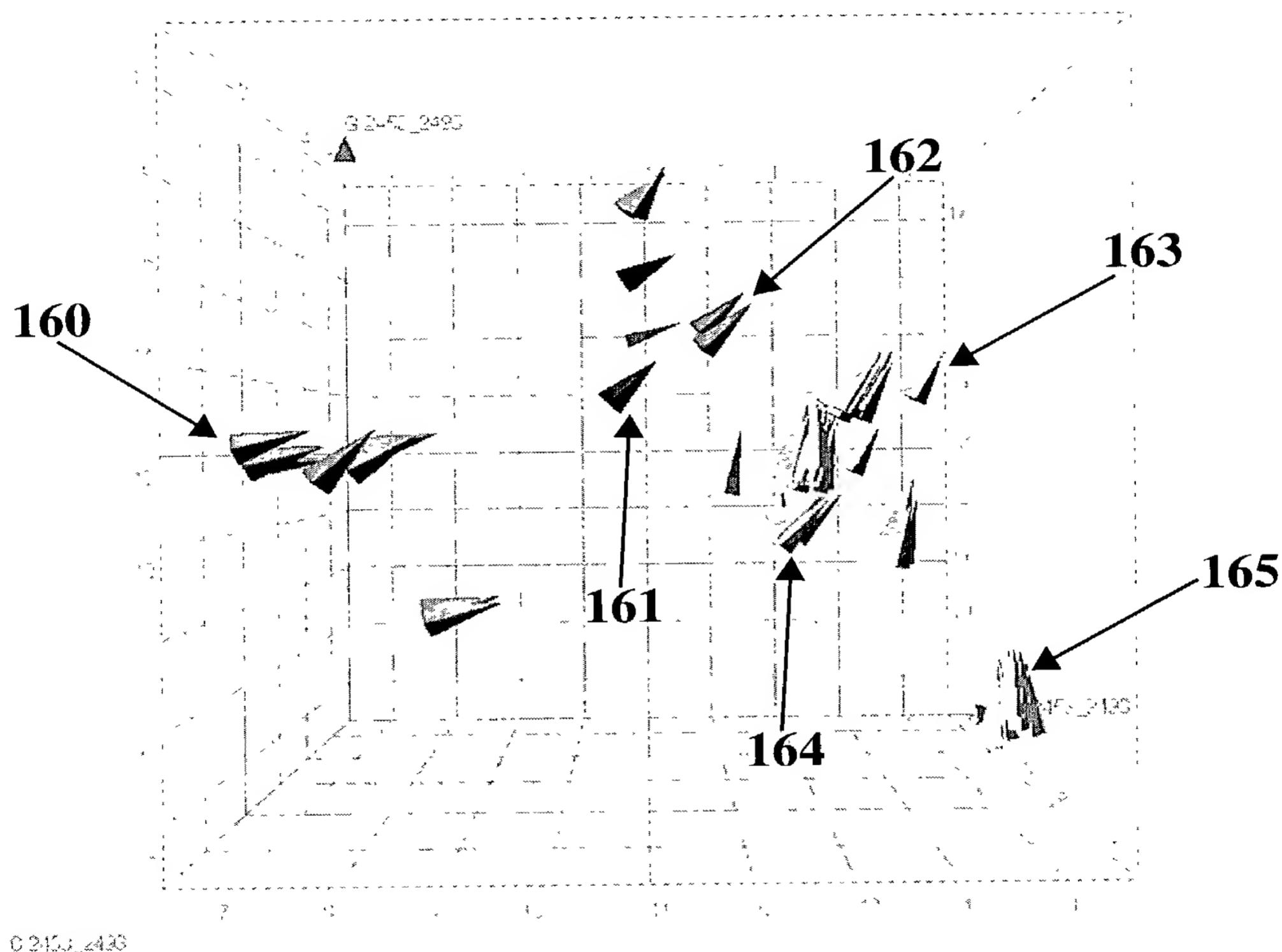


Fig. 16



Flavi RdRp 2453-2493

■ Dengue virus type	■ Japanese encephalitis virus	■ Tick-borne encephalitis virus
□ Dengue virus type	■ Kunjin virus	■ West Nile virus
■ Dengue virus type	□ Murray valley encephalitis virus	□ Yellow fever virus

Fig. 17

